

Fig. 1a

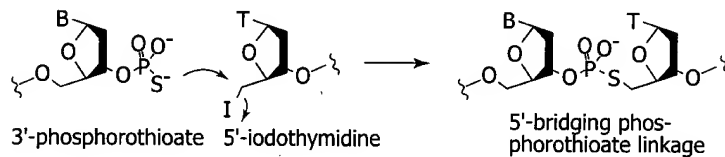


Fig. 1b

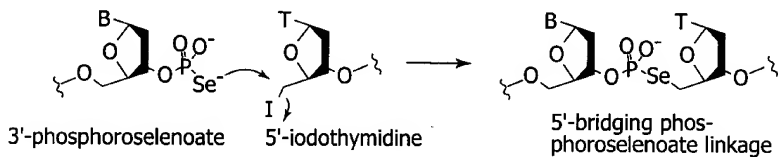
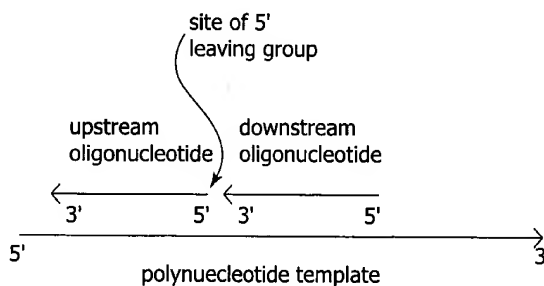


Fig. 1c



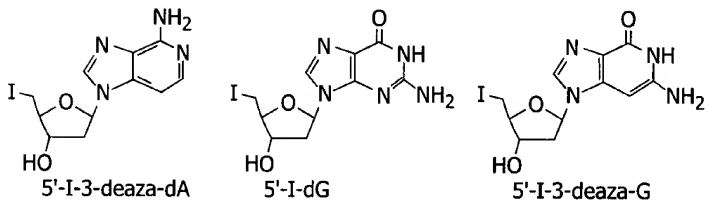
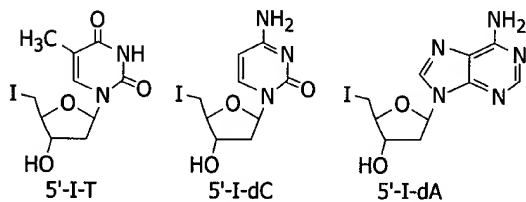


Fig. 2

DATE: 1/14/00
 BY: ETK
 DRAFTING: ETK

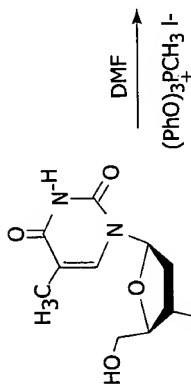
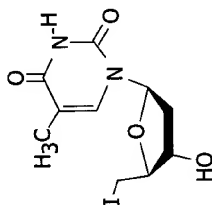
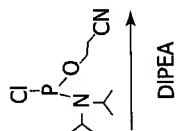
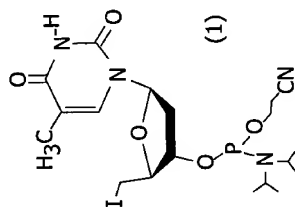


Fig. 3

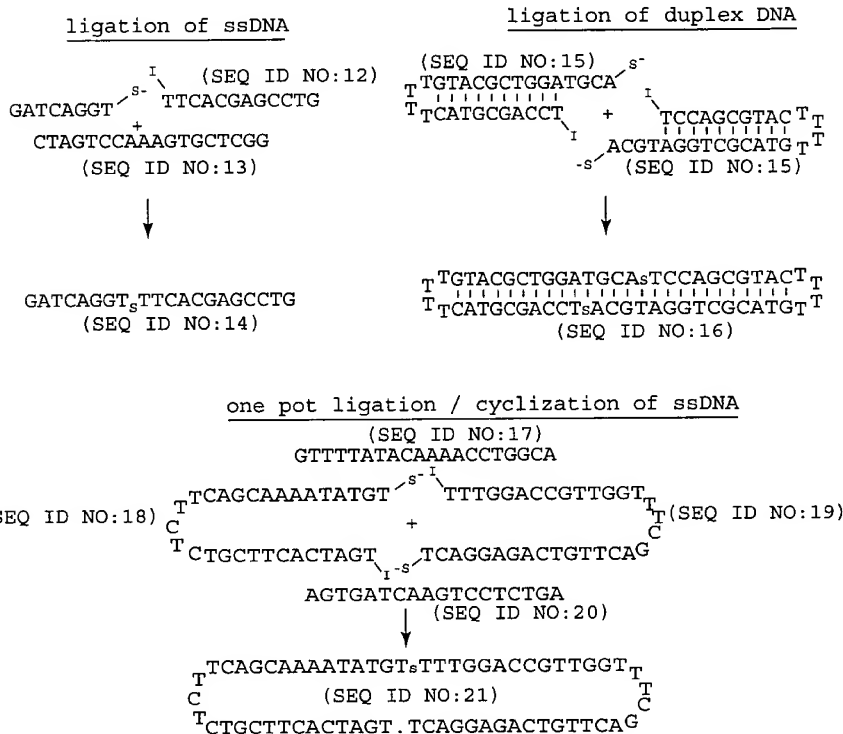


Fig. 4a

<u>rxn.type</u>	<u>conversion</u>	<u>isolated yield</u>
ssDNA ligation	>90%	44%
duplex ligation	75%	36%
ligation/cyclization	>90% (1st step) 50% (2nd step)	20%

Fig. 4b

exonuclease/hydrolysis susceptibility

5'-GATCAGGT_{P8}TTCACGAGCCTG-3' (SEQ ID NO:14)

endonuclease susceptibility

$$\begin{array}{ccccccc} \text{T}^{\text{T}} & \text{GTACGCTGGA} & \text{TGCA}_{\text{P8}} & \text{TCCAGCGTAC}^{\text{T}} & \text{T} & & \\ | & | & | & | & | & | & | \\ \text{T}^{\text{T}} & \text{CATGCGACCT}_{\text{P8}} & \text{ACGT} & \text{AGGTCGCATG}^{\text{T}} & \text{T} & & \end{array} \quad (\text{SEQ ID NO:16})$$

template for replication / transcription

(SEQ ID NO:22)
5'-TAATACGACTCACTATA
| | | | |
3'-ATTATGCTGAGTGATATCCTGCCTATTCCGAGCACT_{P8}TGGACTAG
(SEQ ID NO:23)

Fig. 5

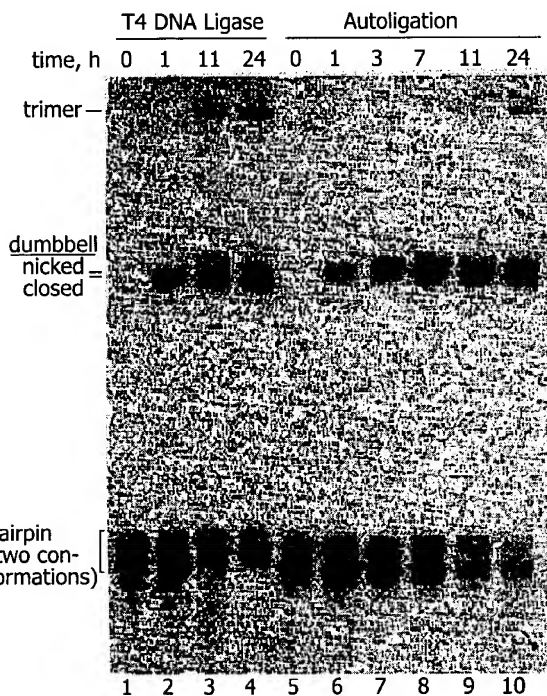


Fig. 6

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 BY: 3000
 DATE: 3/1/00

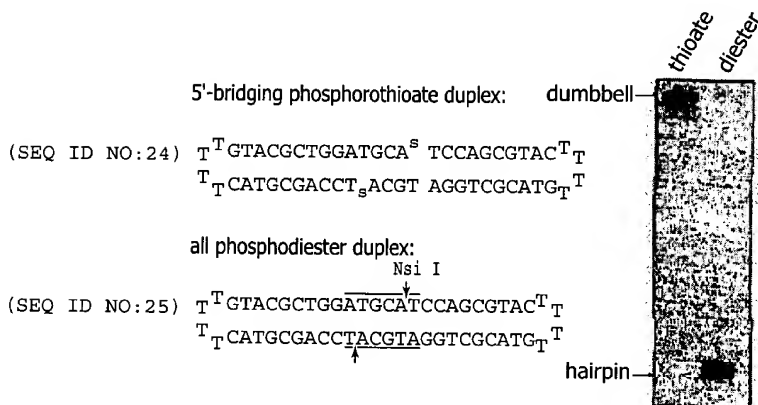


Fig. 7

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PAGE: 10
SUBCLASS: 10
DRAFTS: 10

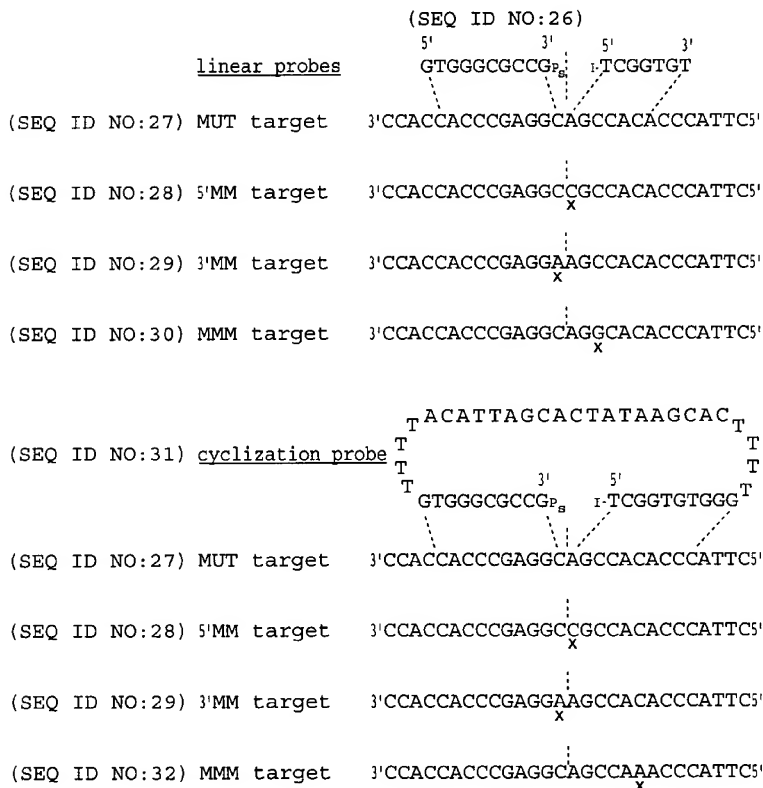


Fig. 8

Fig. 9a

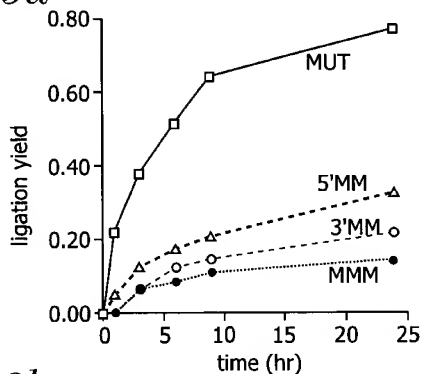


Fig. 9b

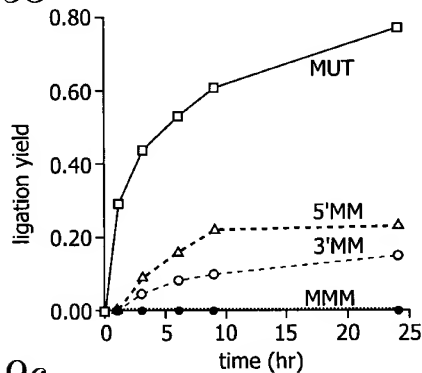


Fig. 9c

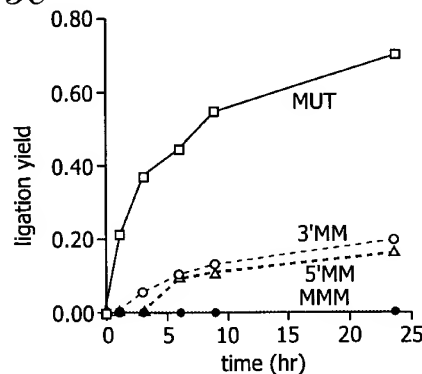


Fig. 10a

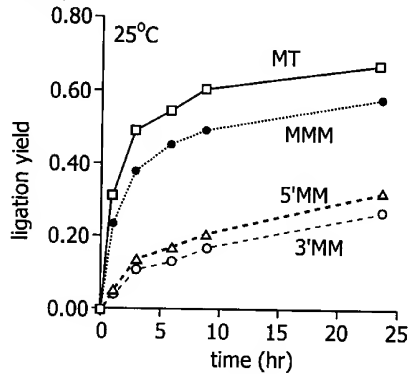
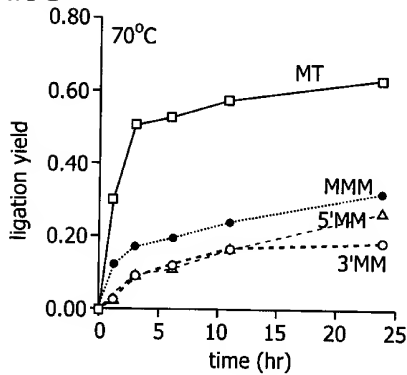


Fig. 10b



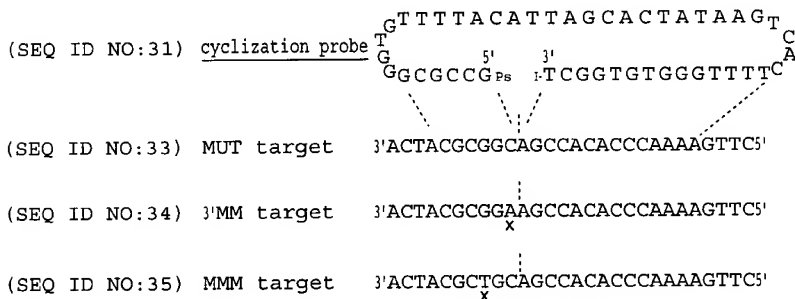


Fig. 11a

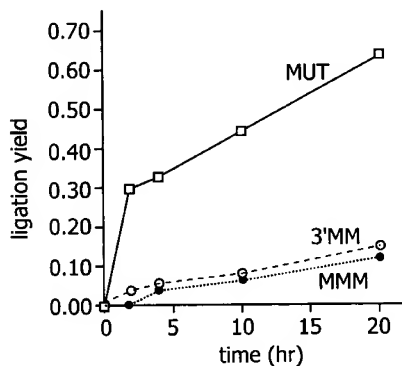


Fig. 11b

Fig. 12a

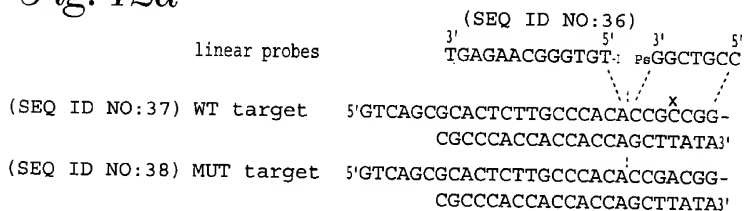


Fig. 12b

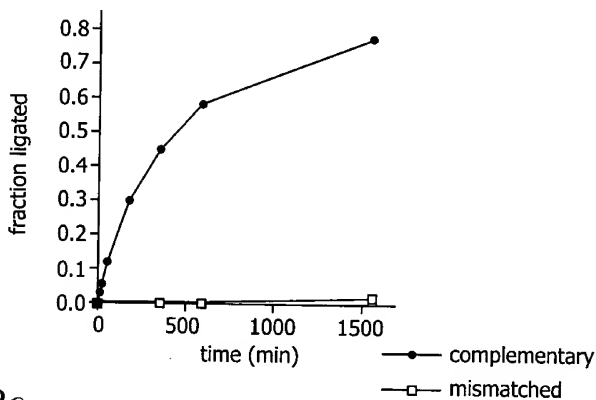


Fig. 12c

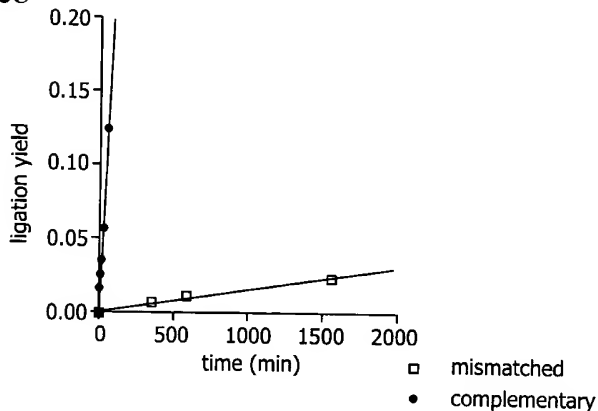


Fig. 13



Fig. 14a

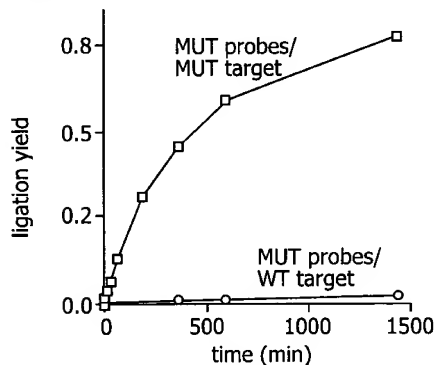
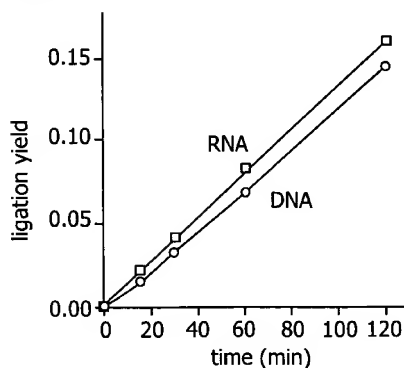


Fig. 14b



temperature (°C)	[target] (nM)	fold turnover	
		no cycling ^a	cycling ^b
22	1	24	--
	10	1.6	1.0
	100	1.0	1.0
27	1	13	14
	10	1.6	3.0
	100	1.2	1.2
32	1	40	51
	10	4.6	4.7
	100	2.3	2.3
37	1	30	44
	10	5.9	6.2
	100	2.2	2.2

^aSimple incubation of 10 μ M probes with target for 24 hr followed by gel electrophoresis and quantitation of ligated product.

^b24 hr of thermal cycling (30 min at temp. shown, followed by 45 sec at 95°C).

Fig. 15a

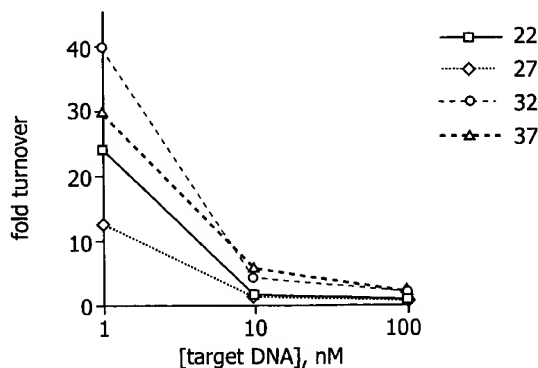


Fig. 15b



Fig. 16a

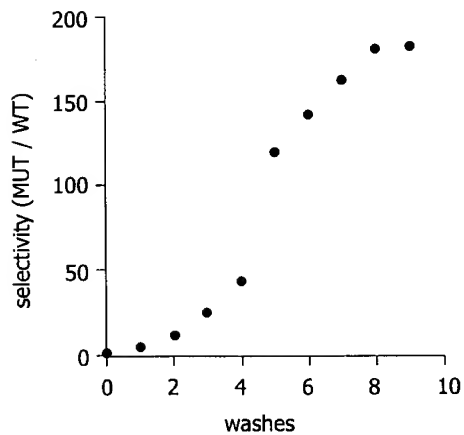


Fig. 16b

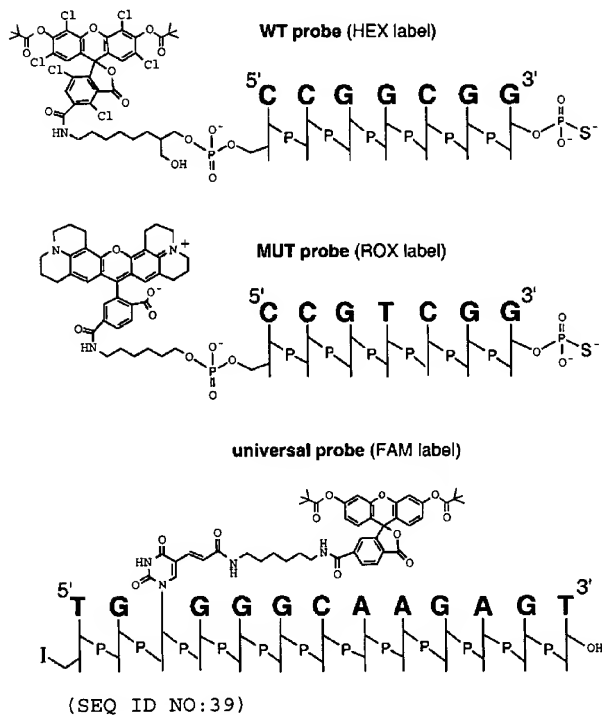


Fig. 17

Fig. 18a

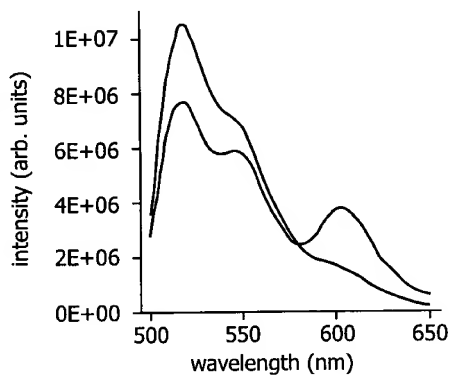


Fig. 18b

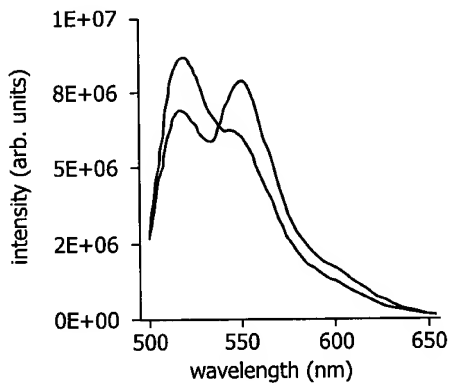


Fig. 18c

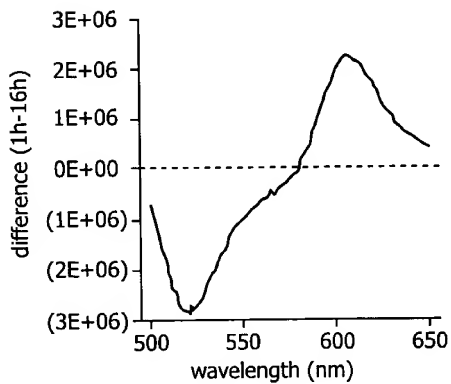


Fig. 19

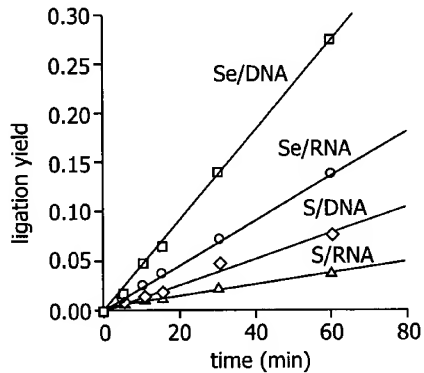
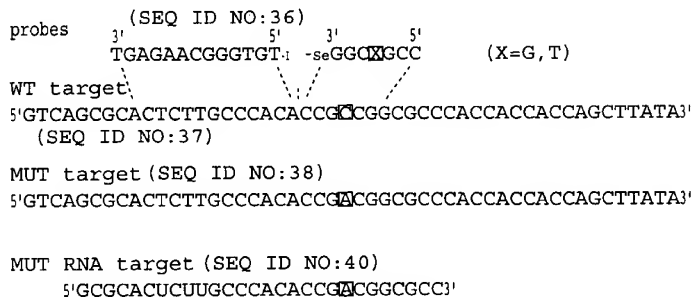


Fig. 20

FIG.
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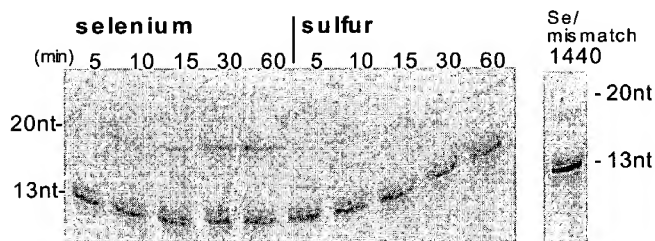


Fig. 21